

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Salman Akram
 Serial No.: Not Yet Assigned
 Filed:
 Title: METHODS AND APPARATUS RELATING TO SINGULATING SEMICONDUCTOR WAFERS AND WAFER SCALE ASSEMBLIES

Examiner: Unknown
 Group Art Unit: Unknown
 Attorney Docket No.: 2269-5527US (99-0440.00/US)

POWER OF ATTORNEY BY ASSIGNEE
AND CERTIFICATE UNDER 37 CFR § 3.73(b)

Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Sir:

MICRON TECHNOLOGY, INC., assignee of the entire right, title and interest by assignment from the inventor(s) in the above-identified application, hereby appoints the following attorneys and agents:

David V. Trask, Reg. No. 22,012	William S. Britt, Reg. No. 20,969	Laurence B. Bond, Reg. No. 30,549
Joseph A. Walkowski, Reg. No. 28,765	James R. Duzan, Reg. No. 28,393	H. Dickson Burton, Reg. No. 48,396
Allen C. Turner, Reg. No. 33,041	Edgar R. Cataxinos, Reg. No. 39,931	Kent S. Burningham, Reg. No. 30,453
Brick G. Power, Reg. No. 38,581	Kevin K. Johanson, Reg. No. 38,506	Krista Weber Powell, Reg. No. 47,867
Bretton L. Crockett, Reg. No. 44,632	Tawni L. Wilhelm, Reg. No. 47,456	Bradley B. Jensen, Reg. No. 46,801
Andrew F. Nilles, Reg. No. 47,825	Greg T. Warder, Reg. No. 50,208	Katherine A. Harner, Reg. No. 47,628
Marcus S. Simon, Reg. No. 50,258	Trent N. Butcher, Reg. No. 51,518	G. Scott Dorland, Ph.D., Reg. No. 51,622
Jeffery M. Michelsen, Reg. No. 50,978	Michael L. Lynch, Reg. No. 30,871	Charles B. Brantley II, Reg. No. 38,086

as its attorneys with full power of substitution to prosecute this application and all applications claiming filing date priority therefrom and to transact all business in the U.S. Patent and Trademark Office in connection therewith.

The above-identified assignee hereby elects, pursuant to 37 C.F.R. § 3.71, to conduct the prosecution of the above-identified patent application to the exclusion of the inventor(s).

A chain of title from the inventor(s) of the above-identified patent application to the above-identified assignee is shown:

☐ In an assignment recorded in the U.S. Patent and Trademark Office at Reel _____, Frame _____.

☒ In an assignment filed herewith for recordation, a true copy of which is attached hereto.

The undersigned has reviewed the above-identified assignment and, to the best of his knowledge and belief, title is in the above-identified assignee.

The undersigned further avers that he is empowered to make and sign the foregoing certification on behalf of the above-identified assignee, and to take the action set forth herein on its behalf.

Please direct all communications regarding the above-identified application to:

Joseph A. Walkowski,
 TRASKBRITT
 P.O. Box 2550
 Salt Lake City, UT 84110
 Telephone: (801) 532-1922
 Fax: (801) 531-9168

Respectfully submitted,

MICRON TECHNOLOGY, INC.

Date: 3-8-2004

By: [Signature]
 Michael L. Lynch, Esq.
 Reg. No. 30,871
 Chief Patent Counsel,
 MICRON TECHNOLOGY, INC.

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned ASSIGNOR does hereby:

SELL, ASSIGN AND TRANSFER to Micron Technology, Inc. ("ASSIGNEE"), a corporation of the state of Delaware having a place of business at 8000 South Federal Way, Boise, Idaho 83707-0006, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the Application for United States Letters Patent, which has been executed by each undersigned ASSIGNOR concurrently herewith and is entitled **METHODS AND APPARATUS RELATING TO SINGULATING SEMICONDUCTOR WAFERS AND WAFER SCALE ASSEMBLIES**, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application made in the United States;

AUTHORIZE the ASSIGNEE to apply for and receive any and all United States and foreign patents relating to such improvements in its own name;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to and in the name of the ASSIGNEE;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement or encumbrance affecting the rights and property herein conveyed has been or will be made or entered into by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the ASSIGNEE, to carry out in good faith the intent and purpose of this assignment, to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications relating to any and all such improvements; to execute all rightful oaths, declarations, assignments, powers of attorney and other papers; to communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known and accessible to the undersigned relating to such improvements and the history thereof, and testify as to the same in any interference, litigation or other proceeding relating thereto; and generally to do everything possible which the ASSIGNEE shall consider desirable for vesting title to such improvements in the ASSIGNEE, and to secure, maintain, defend and enforce valid and enforceable patent protection for such improvements;

AGREE AND ACKNOWLEDGE that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon the heirs, assigns, representatives and successors of each undersigned ASSIGNOR and EXTEND to the successors, assigns and nominees of the ASSIGNEE.

ASSIGNOR:

Salman Akram

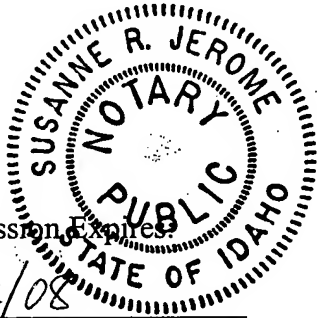
Date March 1st 2004

Salman Akram

Residing at: 1463 E. Regatta, Boise, Idaho 83706

COUNTY OF ADA)
STATE OF IDAHO) : ss.

On this 1st day of March, 2004, before me personally appeared Salman Akram to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same.



Susanne R. Jerome
Notary Public in and for said County and State